



DEPARTMENT OF THE AIR FORCE  
59TH MEDICAL WING (AETC)  
JOINT BASE SAN ANTONIO - LACKLAND TEXAS



16 MAR 2017

MEMORANDUM FOR SGDTP

ATTN: CAPT HARRISON D GORDNER

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled **Cantilever Resin-Bonded Fixed Dental Prosthesis Show Clinical Success** presented at/published to **Texas Dental Journal** in accordance with MDWI 41-108, has been approved and assigned local file #**17147**.
2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are a 59 MDW staff member, we can forward your request for funds to the designated Wing POC at the Chief Scientist's Office, Ms. Alice Houy, office phone: 210-292-8029; email address: [alice.houy.civ@mail.mil](mailto:alice.houy.civ@mail.mil).
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

*Linda Steel-Goodwin*

LINDA STEEL-GOODWIN, Col, USAF, BSC  
Director, Clinical Investigations & Research Support

## PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

### INSTRUCTIONS

USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING

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  - b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state "YES" or "NO" in Section 2 of the form, if you need publication funding support.
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3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/QI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.
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**NOTE:** All abstracts, papers, posters, etc., should contain the following disclaimer statement:

***"The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components"***

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***"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02\_AFI 40-402."***

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***"The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."***



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LAST NAME, FIRST NAME AND M.I.	GRADE/RANK	SQUADRON/GROUP/OFFICE SYMBOL	INSTITUTION (If not 59 MDW)
a. Primary/Corresponding Author Gordner, Harrison, D	O-3, Capt	59DTS/SGDTP	
b. Haney, Stephan			UT Health San Antonio
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d.			
e.			
f.			
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# CAT OF THE MONTH

## Critically Appraised Topics

### Cantilever resin-bonded fixed dental prostheses show clinical success Clinical UT CAT#2808

**Question:** When replacing a missing maxillary anterior tooth, does a cantilever resin-bonded fixed dental prosthesis (RBFDP) improve clinical success rates compared to a two retainer RBFDP?

**Clinical Bottom Line:** A cantilever RBFDP demonstrates lower clinical failure rates compared to a two retainer RBFDP to replace a missing maxillary anterior tooth.

**Best Evidence:** Wei YR *et al.* Clinical performance of anterior resin-bonded fixed dental prostheses with different framework designs: A systematic review and meta-analysis. J Dent 2016; 47:1-7. PMID26875611

Botelho MG, Chan AW, Leung NC, Lam WY. Long-term evaluation of cantilevered versus fixed-fixed resin-bonded fixed partial dentures for missing maxillary incisors. J Dent 2016; 45:59-66. PMID26756882

**Key Results:** Wei *et al.* analyzed 5 studies for the failure rate of different RBFDP framework designs. The failure rate of cantilever RBFDP's was significantly lower than two retainer RBFDP's (OR 0.42, 95% CI). A recent RCT by Botelho *et al.* evaluated clinical success of the same RBFDP designs (n=23). All cantilevered prostheses survived without complications (mean 18 years), while only 10% of the two retainer prostheses were complication free and 50% survived.

**Comments on Evidence:** The Wei systematic review included five articles; only 1 was a RCT. An additional RCT by Botelho adds confidence to the validity of the Wei findings. It has been suggested that two retainer FDP's tend to fail more due to differential movement between the abutment teeth under functional stresses.

**Applicability or Significance:** When a minimally invasive prosthesis of intermediate longevity is planned, a cantilever RBFDP may be the preferred treatment option.

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**Resident Author:** Capt Harrison D Gordner, DMD, Resident, Air Force Post-graduate Dental School and Uniformed Services University of the Health Sciences Postgraduate Dental College is a 1<sup>st</sup> year Prosthodontics resident at Lackland AFB.

**Faculty Author:** Dr. Stephan Haney is an Associate Professor in the Department of Comprehensive Dentistry and Director of Graduate Prosthodontics at UT Health San Antonio.

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